Approved For Release 2005/03/28 : CIA-RDP62S00231A000100040033-4

SOVIET COMPUTER HODUSTICE DETELOPMENTS

25X1

are on a partly transistorized digital computer. This analog computer, Model MM-10, is designed for the solution of up to sixth order differential equations, weight less than 77 pounds, and occupies about 3 square feet of deak space. Series production reportedly began in 1958. The Soviets have consistently put a relatively greater emphasis on analog computers than the US and in this accomplishment are estimated to be approximately two years ahead of comparable US production efforts. This represents a relatively high level of skill, not only in computer production techniques, but also in the mastery of the accompanying problems in transistor technology, precision electronic component manufacture, research and test equipment manufacture, and stabilization techniques. A number of their instruments were on display at the New York automation exhibition.

A transistorized computer is not only a powerful tool for scientific research and industrial control work, but since it is significantly smaller, uses far less electric power and radiates very little heat, it can be readily adapted to airbonne control applications and other critical military uses.

25X1

2581	Approved For Release 2005/03/28 : CIA-RDP62S00231A000100040033-4	
25X1	Soviet	
	computer production is at present concentrated at computer plants in (SAM)	
	Moscow and Pensa. The Moscow Computing and Analyzing Machine Plant had,	
	by mid-1957, achieved a production rate of 100 computers a month of all	
	types, and reportedly had a total employment of 6,000. This is	
	significantly greater than the previously estimated labor force at this	
	plant. Earlier information indicated that the labor force at the Mcscow	
	SAM Plant was no more than about 2,500 in 1956.	25X1
25X1		
	computers produced there were of a specialized type for atomic or	
	aeronautical research, rather thun the general purpose type such as the	
	US produced "Univac". The plant not only produced the computers, but	
	also manufactured a large number of the specialized components, with	
	extensive use being made of standardized subassemblies for the various	
	functional elements.	25X1

Approved For Release 2005/03/28 : CIA-RDP62S00231A000100040033-4